

Air Force Materiel Command

Developing, Fielding, and Sustaining America's Aerospace



Enhanced Technical Information Management System (ETIMS)

U.S. AIR FORCE

This briefing/presentation/documentation is for information only. No US Government commitment to sell, loan, lease, co-develop or co-produce defense articles or services is implied or intended.

MSG/MMF
937-257-3085

Integrity - Service - Excellence

68



Overview

UNCLASSIFIED



- **Current TO Environment**
- **Mission Impact**
- **TO CONOPS**
- **History - AFMC/CV Tasking**
- **IRT Summary of Findings**
- **Current Situation**
- **ETIMS**
- **Customer-Focused Requirements Generation**
- **Summary**

UNCLASSIFIED



UNCLASSIFIED



Current TO Environment

- **Analog approach in a digital world**
 - **Currency**
 - **Timeliness**
 - **Accuracy**
 - **Distribution**



UNCLASSIFIED

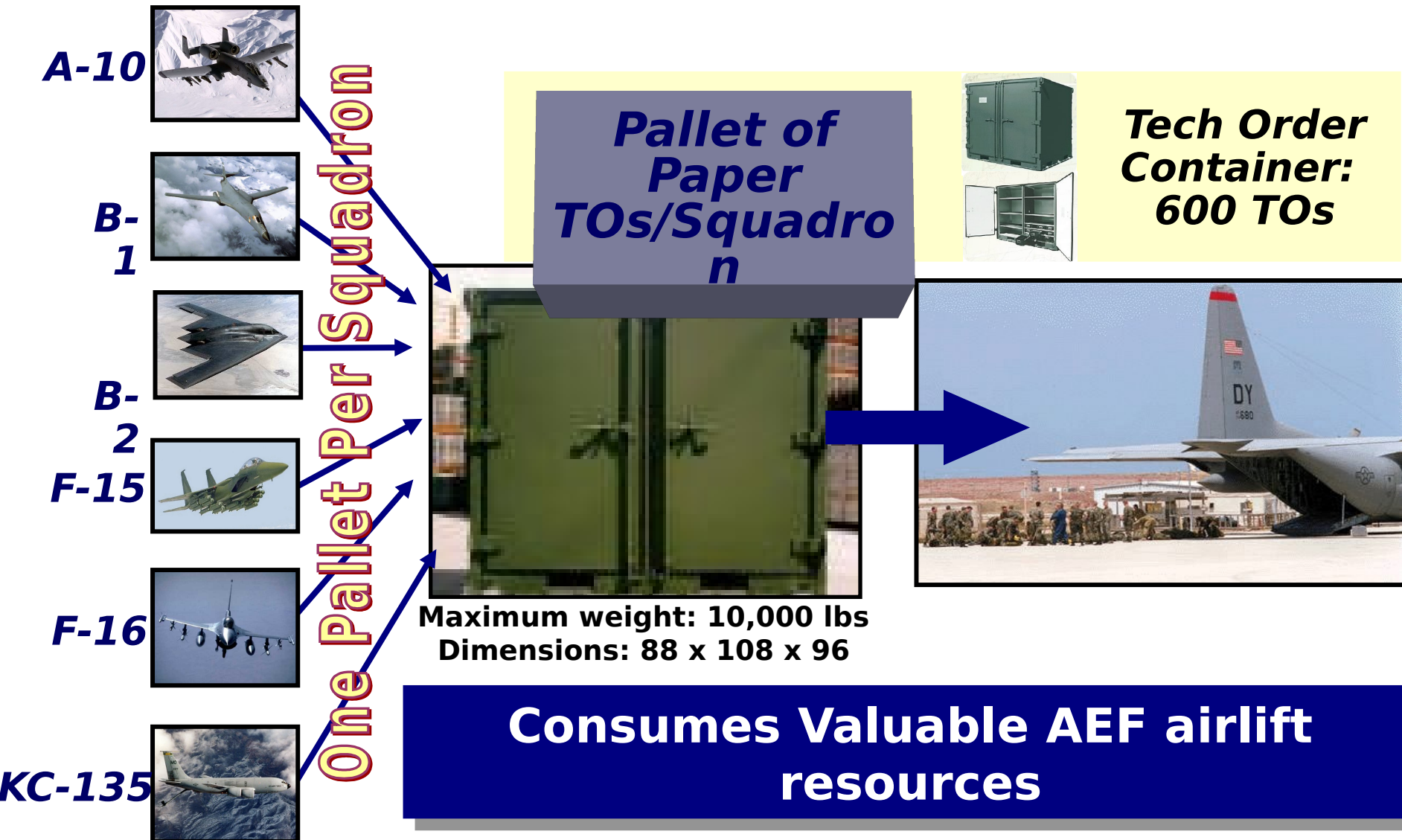
ETIMS Briefing 9 mar 0



UNCLASSIFIED



Mission Impact



UNCLASSIFIED



UNCLASSIFIED



TO CONOPS

- DoD-level direction on transition toward a digital environment (DEPSECDEF Memo, 2 Jul 97)
- AF/ILM Memo, 28 Feb 00, TO Concept of Operations (CONOPS) and TO Policy
 - Develop AF CONOPS and architecture to support Enterprise Vision
 - Develop transition plan and roadmap
- Executive Direction: AF/IL
 - Oversight by GO-level MAJCOM & AF/ILM Steering Group
- Working-level customers: HQ AFMC/DR & EN
- AF/ILM, AF/IL, and AF-CIO concurred with approach

TO VISION: Up-to-date, technically accurate, and user friendly TOs at an acceptable price

UNCLASSIFIED



UNCLASSIFIED

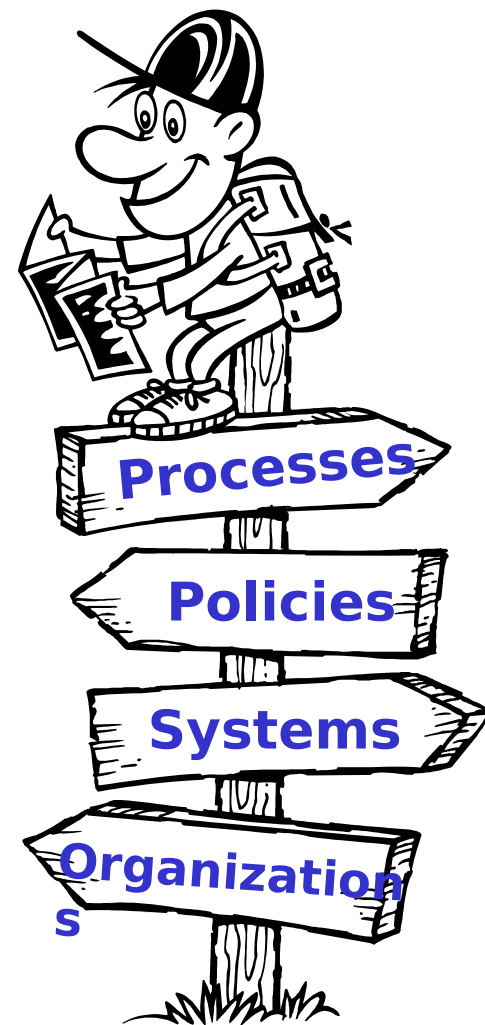


History - AFMC/CV Tasking

**Review technical order
systems and processes,
provide
recommendations, and
develop an approach to
achieve AF TO vision and
roadmap for AFMC**

IRT Deployed - 18 Mar 02

AFMC/CV Briefing - 23 Apr 02



UNCLASSIFIED



UNCLASSIFIED



Independent Review Team (IRT) Summary of Findings

Findings

- 20+ systems used to perform TO functions
- Many systems provide similar functions
- Systems perform below user expectations
- Inconsistent data/manual data reconciliation
- Local systems exist without defined or validated/documented requirements



Impact

- Warfighters must interface with multiple TO systems
- Untimely distribution of safety notifications
- Excessive and duplicate user workload

**We Must Change the Way We Are Doing
Business**

UNCLASSIFIED

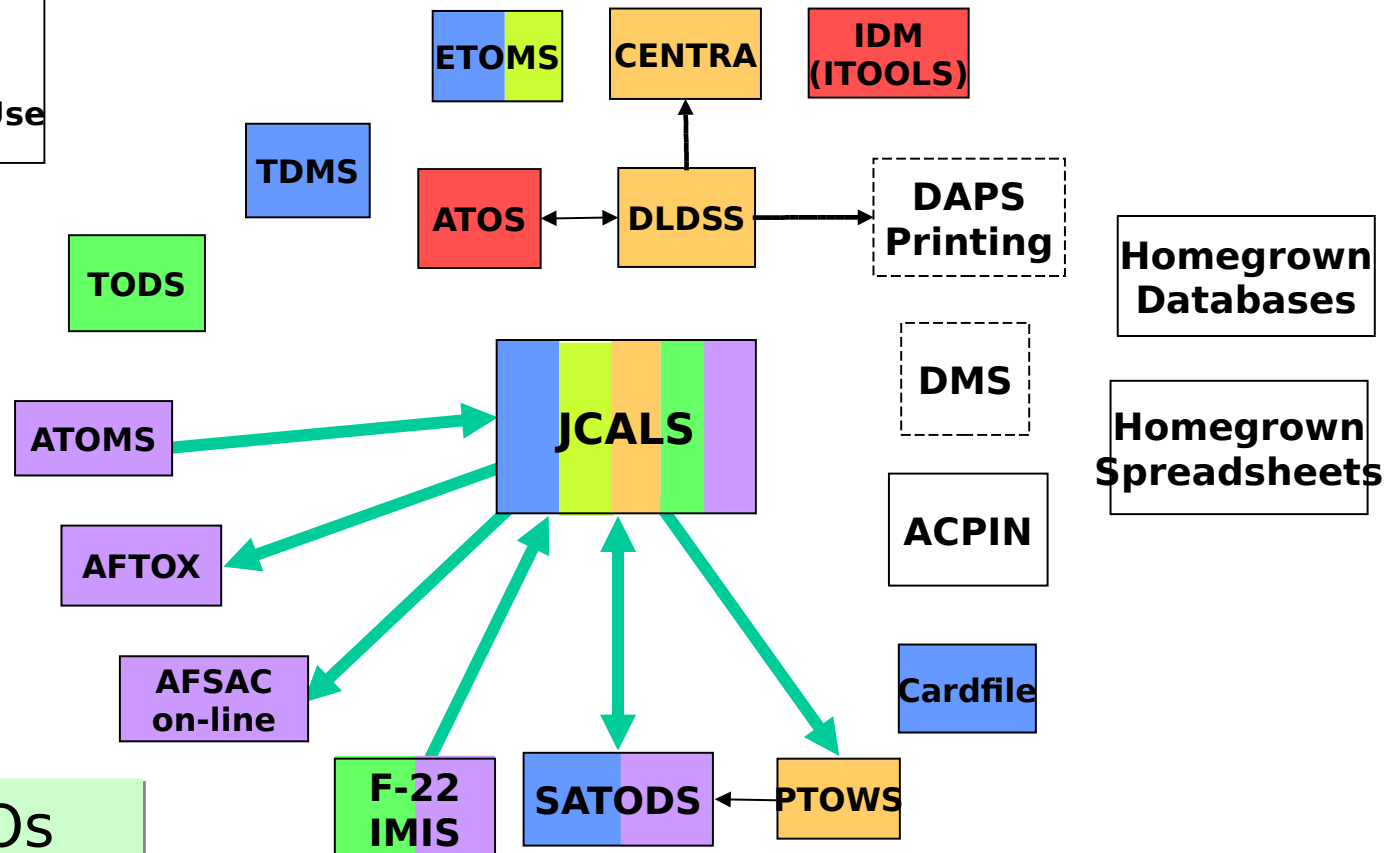
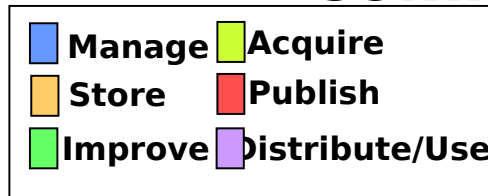


Current Situation: Paper Product

UNCLASSIFIED



Sample of Systems used by TO Community



- 132,781 AF TOs
- 97% have paper distribution



Current Situation: Digital Product

UNCLASSIFIED



**C-130
F-15**

**ECS
(Boeing)**



E-3

**IDM
(N-G)**



J-STARS

**JIMIS
(N-G)**



B-52

**bDynamics
(Boeing &
DocSoft)**



F-22

**IMIS
(L-M)**

Not integrated and growing

UNCLASSIFIED



UNCLASSIFIED



How We Got ETIMS

- **HQ AFMC/CV centralized TO management (Jun 02)**
 - **Named TO process owner (HQ AFMC/EN)**
 - **Requested ESC appoint SPD for TO systems (MSG/MM)**
- **Formal acquisition process (Mar-Apr 03)**
 - **MAJCOMs participated in source selection**
 - **Competitive task order awarded to Intergraph**
- **ETIMS confirmed as corporate way ahead**
 - **GOSGs (Feb & Jul 03)**
 - **CAF/MAF (Oct 03)**
 - **HQ AFMC/EN Engineering Council (Oct 03)**

UNCLASSIFIED



Moving to the 21st Century

UNCLASSIFIED



Enhanced Technical Information Management

A Technical Order Management System that is user-friendly and provides accurate and up-to-date data to users in the format required.

- **ETIMS will:**
 - Improve management and distribution of paper and digital TOs
 - Provide current, accurate status of change requests
 - Leverages functionality of ATOMS, JCALS and other separate systems and processes
 - Take advantage of the “golden nuggets” in current systems
- **ETIMS will not:**
 - Improve accuracy of TO content
 - Provide e-Tools for MAJCOMs

UNCLASSIFIED



ETIMS Comparison

Today

No digital distribution

Paper TO updates can take months & are not tracked at an enterprise level

FMS customers not fully supported

Not interoperable with end-user devices

Does not support classified users

**Stovepipe Perspective/
Custom Code**



ETIMS

Seamlessly supports digital & paper TOs

Timely updates managed & tracked

Meets FMS needs

Provides expeditionary capability
Better integration of TO suppliers/users

Provides classified capability

**Enterprise View/
COTS Technology**



Concept Laboratory

Tech Data Lab at WPAFB using AFRL Logistics Technology Integration Environment (LOGTIE) facility

Purpose: Risk Mitigation

- Network of systems for test & evaluation
- Bandwidth analysis
- Performance and Load testing
- User training
- E-tool compatibility testing
- Wireless capabilities
- GCSS-AF test software
- JCALS instance
- AF Common Viewer
- Sybase replication
- Rational tools
- Mercury test products
- Oracle

Environment for V & V and Customer Acceptance Testing

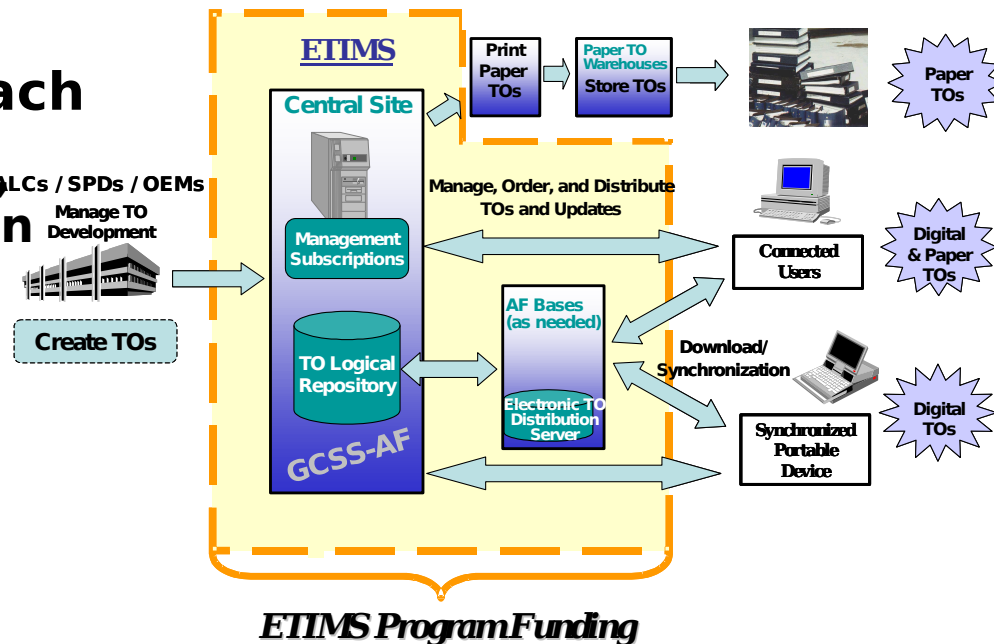


UNCLASSIFIED



ETIMS Solution

- Improves flight safety, readiness
 - Improves TO quality, timeliness
 - Consolidates TO data/metadata to single source and delivers to users (System of Record)
- Architected & built on GCSS-AF
 - Eases integration with Mx / Log management systems
 - COTS integration approach
 - Teamcenter used by GE, LSCs / SPDs / OEMs, Boeing, Lockheed Martin
 - Postured for engineering data



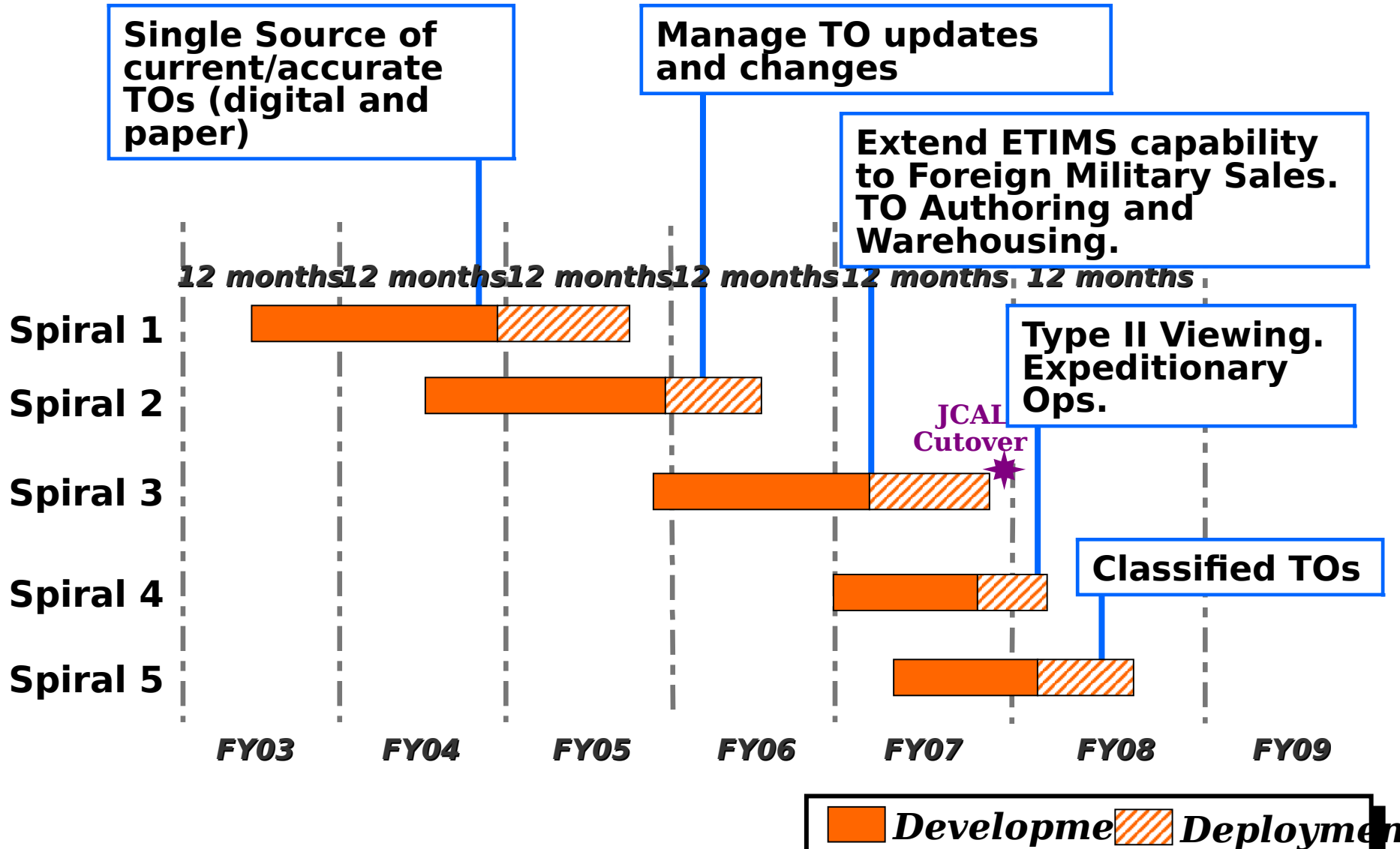
UNCLASSIFIED



UNCLASSIFIED



Proposed Schedule



UNCLASSIFIED



Customer-Focused Requirements Generation

UNCLASSIFIED



- **Rational Unified Process (RUP)**
 - Proven and widely accepted methodology using a use-case-driven approach
 - Serves as the foundation for the rest of the development process
 - Use cases play a major role in system design, user interface design, and testing
- **Work in Joint Application Design/Joint Requirements Definition (JAD/JRD) Sessions**
 - Facilitated working sessions for effective consensus building and decision making
- **Work in Storyboard and Screen Design Sessions**
 - Facilitated working sessions to refine Graphic User Interfaces (GUI) to best fit user's needs

UNCLASSIFIED



UNCLASSIFIED

AF-Wide Involvement



- Both wholesale and retail level TO expertise

- AFMC

- OC-ALC
- WR-ALC
- OO-ALC
- AAC
- AMARC
- AFMETCAL

- ACC

- AFSOC

- AMC

- AFSPC

- AETC

- ANG

- AFRC



UNCLASSIFIED



Summary

- **Warfighter Focused**
 - Single Point of Entry
 - Current TOs at the point of need
 - Automatic Electronic TO Updates
- **Scalable / Flexible Architecture**
 - Componentized for software modernization
 - Integration of industry leading COTS products
 - Web-based for ease of use
 - GCSS-AF Integrated